CLAIMS

1	1. A method in a computer system for determining performance of a
2	turbine, the method comprising:
3	receiving from a user an identification of a turbine;
4	retrieving configuration information for the identified turbine;
5	determining current performance characteristics of the turbine based on the
6	retrieved configuration information;
7	sending to the user a display page for displaying the determined current
8	performance characteristics;
9	receiving from the user an indication of a modification to the configuration of
10	the identified turbine;
Ī11	determining future performance characteristics of the identified turbine based
보 12	on the indicated modification to its configuration; and
13	sending to the user a display page for displaying the determined future
14	performance characteristics.
11 12 13 14	
1	2. The method of claim 1 wherein the determining of the current
2	performance characteristics includes simulating the current performance characteristics based
3	on various readings collected from the identified turbine.
1	3. The method of claim 2 wherein the simulating of the current
2	performance characteristics includes estimating fuel flow by repeatedly simulating the
3	current performance characteristics with a varying fuel flow until a desired combustor
4	efficiency is achieved.

performance characteristics includes adjusting initial performance characteristics based on

The method of claim 1 wherein the determining of the current

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length of time the identified turbine has been in operation.

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- 5. The method of claim 1 wherein the determining of the current performance characteristics includes measuring the performance characteristics of the turbine.
- 1 6. The method of claim 1 wherein the display page includes an indication of average performance characteristics for similar turbines.
- 7. The method of claim 1 wherein the display page include an indication of highest performance characteristics for similar turbines.
 - 8. The method of claim 1 wherein the display page includes a graph illustrating performance characteristics.
 - 9. The method of claim 8 wherein the graph includes a background with colors that transition from a shade of red to a shade of yellow to a shade of green.
 - 10. The method of claim 1 including receiving financial information relating to operation of the identified turbine and estimating revenue generated from the identified turbine with the indicated modification.
 - 11. A method in a computer system for determining performance of a turbine, the turbine having a configuration, the method comprising:
 - simulating a current performance characteristic based on various readings collected from an identified turbine;
 - receiving from a user an indication of a modification to the configuration of the identified turbine;
 - determining a future performance characteristic of the identified turbine based on the indicated modifications to its configuration; and
- sending to the user a display page for displaying the determined future performance characteristic.

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- 1 12. The method of claim 11 wherein the simulating of the current performance characteristic includes estimating fuel flow by repeatedly simulating the current performance characteristic with a varying fuel flow until a desired combustor efficiency is achieved.
- 1 13. The method of claim 11 wherein the display page includes an indication of an average for the performance characteristic for similar turbines.
- 1 14. The method of claim 11 wherein the display page includes an indication of a highest performance characteristic for similar turbines.
 - 15. The method of claim 11 wherein the display page includes a graph illustrating performance characteristics.
 - The method of claim 15 wherein the graph includes a background with colors that transition from a shade of red to a shade of yellow to a shade of green.
 - 17. The method of claim 11 wherein the display page is a web page.
 - 18. The method of claim 11 wherein the display page is sent via the Internet.
 - 19. The method of claim 11 including receiving financial information relating to operation of the identified turbine and estimating revenue generated from the identified turbine with the indicated modification.
- 20. A method in a computer system for displaying a performance characteristic of a turbine, the method comprising:
- sending an identification of a turbine; and
- receiving a display page indicating a performance characteristic of the identified turbine relative to the performance characteristic for similar turbines.

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1	21. The method of claim 20 including
2	sending an indication of a modification to the identified turbine; and
3	receiving a display page indicating the performance characteristic of the
4	identified turbine with the indicated modification.

- 22. The method of claim 20 wherein the display page includes financial information relating to possible modifications to the identified turbine.
- 23. The method of claim 20 wherein the performance characteristic of the identified turbine is displayed as a graph. 2
 - 24. The method of claim 23 wherein the graph indicates the performance characteristic for similar turbines.
 - 25. The method of claim 24 wherein the graph includes an indication of an average performance characteristic for similar turbines.
 - The method of claim 24 wherein the graph includes an indication of a 26. highest performance characteristic for similar turbines.
 - 27. The method of claim 23 wherein the graph includes a background with colors that transition from a shade of red to a shade of yellow to a shade of green.
- 28. A computer-readable medium containing instructions for controlling a 1 computer system to determine a performance characteristic of a turbine, the turbine having a 2 configuration, by a method comprising: 3
 - simulating a current performance characteristic based on various readings collected from an identified turbine:
- receiving an indication of a modification to the configuration of the identified 6 turbine; and 7

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- determining a future performance characteristic of the identified turbine based on the indicated modifications to its configuration.
- The computer-readable medium of claim 28 wherein the simulating of the current performance characteristic includes estimating fuel flow by repeatedly simulating the current performance characteristic by varying fuel flow until a desired combustor efficiency is achieved.
 - 30. The computer-readable medium of claim 28 including receiving financial information relating to operation of the identified turbine and estimating revenue generated from the identified turbine with the indicated modification.
 - 31. The computer-readable medium of claim 28 including sending a display page for displaying the determined future performance characteristic.
 - 32. The computer-readable medium of claim 31 wherein the display page includes an indication of an average for the performance characteristic for similar turbines.
 - 33. The computer-readable medium of claim 31 wherein the display page includes an indication of a highest performance characteristic for similar turbines.
 - 34. The computer-readable medium of claim 31 wherein the display pages includes a graph illustrating the performance characteristics.
- The computer-readable medium of claim 34 wherein the graph includes a background with colors that transition from a shade of red to a shade of yellow to a shade of green.
- The computer-readable medium of claim 31 wherein the display page is a web page.

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- The computer-readable medium of claim 31 wherein the display page is sent via the Internet.
- 1 38. A computer system for determining a performance characteristic of a turbine, the turbine having a configuration, comprising:
- means for receiving an indication of a modification to the configuration of an identified turbine; and
- means for determining a future performance characteristic of the identified turbine based on the indicated modifications to its configuration.
 - 39. The computer system of claim 38 including:

means for simulating a current performance characteristic based on various readings collected from the identified turbine.

- 40. The computer system of claim 39 wherein the means for simulating the current performance characteristic includes means for estimating fuel flow by repeatedly simulating the current performance characteristic by varying fuel flow until a desired combustor efficiency is achieved.
- 41. The computer system of claim 38 including means for receiving financial information relating to operation of the identified turbine and means for estimating revenue generated from the identified turbine with the indicated modification.